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157

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/730,260	12/09/2003	Toshifumi Otsubo	2038-310	3334

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EXAMINER

HAND, MELANIE JO

ART UNIT PAPER NUMBER

3761

DATE MAILED: 08/28/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/730,260

Applicant(s)

OTSUBO, TOSHIFUMI

Examiner

Melanie J. Hand

Art Unit

3761

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 07 June 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 6/7/06.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

## **DETAILED ACTION**

### ***Response to Arguments***

Applicant's arguments, see Remarks, filed June 7, 2006, with respect to the rejection(s) of claim(s) 1-10 under 35 U.S.C. 102 have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of a different interpretation of the prior art reference of Olson. Examiner disagrees with applicant's arguments regarding claims 1 and 3 that Olson does not fairly suggest attaching the elastic strands to the chassis outer cover at their opposite end portions only. Olson teaches attaching such strands to the outer cover therefore Olson does in fact fairly suggest attaching the strands at any point on the strand to the outer cover.

### ***Information Disclosure Statement***

The information disclosure statement (IDS) submitted on June 7, 2006 was filed after the mailing date of the Application on December 9, 2003. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Olson et al (U.S. Patent No. 6,297,424).

With respect to **Claim 1**: Olson teaches training pant 20 having longitudinal and lateral dimensions, first and second waist regions 22 and 24, respectively, crotch region 26, elasticized waist opening 50, and leg openings 52 comprised of a plurality of elastic strands, chassis 32, and absorbent assembly 44. The elastic strands have opposing end portions and middle portions and are secured to the outer cover 40. (Col. 11, lines 13-20, 43-45, 62-67, Col. 12, lines 2-6)

Olson does not explicitly teach a particular location on the outer cover to which the elastic strands are attached, therefore it would be obvious to one of ordinary skill in the art to attach the strands at the transversely opposite side edges as the only points of attachment, thereby leaving the middle portions of said strands free of direct securement to the chassis, as such an attachment would provide more freedom of movement of the chassis in the stomach region and therefore more freedom of movement in that region for the user.

Art Unit: 3761

With respect to **Claim 2**: Olson teaches bodyside liner 42 and outer cover 40 that are joined together by any means known in the art, which would produce joining sites. (Col. 14, lines 32-34)

With respect to **Claims 3,4,7,8,14,15**: Outer cover 40 (chassis outer sheet) and bodyside liner 42 (chassis inner sheet) are joined together outside of the periphery of the absorbent assembly 44 at a plurality of joining sites present in the front, waist and side regions. (Col. 14, lines 32-35)

With respect to **Claim 5**: Please see the rejection of claim 1 in addition to the following: The elastic members extend between the side edges, therefore in a contracted state, or the state the elastic members are in when attached to a diaper, their length is equal to that of either of the front or waist regions, which is generally equal to the analogous waist-direction length of the absorbent structure.

With respect to **Claim 6**: Olson teaches graphics 70 disposed opposite the absorbent assembly in the front waist region. (Col. 13, lines 14-20)

With respect to **Claim 9**: Front waist region 22 and rear waist region 24 are joined together by side seams 46. (Col. 11, lines 34-36)

With respect to **Claim 10**: Olson teaches containment flaps. (Col. 11, lines 62-67, Col. 12, lines 2-4)

Art Unit: 3761

With respect to **Claim 11**: Olson teaches that the elastic strands can be adhered to a substrate and then shrunk therefore they are attached in an unstretched state. Since these strands must occupy substantially the entire length of the waist opening to perform their function, their length in the waist-surrounding direction is generally equal to the analogous length of the absorbent core in the same direction.

With respect to **Claim 12**: Olson does not teach a particular length by which the length of the waist elastic strands exceeds the length of the absorbent core, both lengths in the waist-surrounding direction. However, the length is necessarily at least 1 mm as can clearly be seen from Figs. 1-6. It would be obvious to one of ordinary skill in the art to modify the difference in lengths so as to fall in the range set forth in claim 12. This range of values represents an optimization as applicant has not assigned sufficient criticality to this range of values.

With respect to **Claim 13**: Olson teaches that the elastic strands can be joined to the outer cover and bodyside liner, therefore they would be positioned therebetween. Since the strands are continuous, the middle portions of each strand connect the opposite end portions of the same strand, and the continuous strands extend across an entire width of said absorbent structure in the waist surrounding direction from one of transversely opposite side edges of said structure to the other. Since the elastic strands can be bonded to the outer cover in such a manner as to remain free of direct securement to the chassis, such a manner of bonding would also result in the elastic strands being directly bonded neither to the bodyside liner nor the outer cover in an entire section of the middle portion located between the transversely opposite side edges.

Art Unit: 3761

With respect to **Claim 16**: The bonding sites at the side edges bonding the outer cover to the bodyside liner and attaching the elastic strands to the chassis necessarily limit displacement of the middle portions of said strands in the longitudinal direction without affecting the contractibility of said middle portions in the waist-surrounding direction, since the middle portions are still free of direct attachment to the chassis and thus can expand and contract normally.

With respect to **Claim 17,20**: Olson does not explicitly teach a particular location on the outer cover to which the elastic strands are attached, therefore it would be obvious to one of ordinary skill in the art to attach the strands at the transversely opposite side edges as the only points of attachment, thereby leaving the middle portions of said strands free of direct securement to the chassis, as such an attachment would provide more freedom of movement of the chassis in the stomach region and therefore more freedom of movement in that region for the user. With respect to claim 20, since the area of the chassis underlying the absorbent assembly is free of attachment to the strands, the region will also be free of gathers as the strands are pulled taut and attached at their transversely opposite edge portions while the middle portions, i.e. the portions of strands that underlie the absorbent assembly, will remain free of attachment to the chassis and thus cannot cause gathers in said area.

With respect to **Claim 18**: Olson teaches that the strands underlie and extend across the picture on the front of cover 40. The strands are attached at opposite end portions of the elastic members as is suggested by Olson, therefore the strands will not cause gathers to be formed in the picture area of the chassis as the strands will be pulled taut at the transversely opposite end

portion where they are attached to the chassis and thus will prevent the picture from being distorted.

With respect to **Claim 19**: As can be seen in Fig. 1, the elastic strands are disposed between, and spaced in the longitudinal direction from, said elasticized waist opening and said elasticized leg openings.

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melanie J. Hand whose telephone number is 571-272-6464. The examiner can normally be reached on Mon-Thurs 8:00-5:30, alternate Fridays 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tatyana Zalukaeva can be reached on 571-272-1115. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

TATYANA ZALUKAEVA  
SUPERVISORY PRIMARY EXAMINER



Melanie J Hand  
Examiner  
Art Unit 3761